Name _____ **School** _____

Town _____ **Grade** _____ **Phone** _____

LEARNING RESULTS			**DEGREE OF MATCH**	0=no link 1=weak link 2=good link 3=strong link
A.	**NUMBERS & NUMBER SENSE** **Students will understand and demonstrate a sense of what numbers mean and how they are used. Students will be able to:**			
A1.	Use numbers in a variety of equivalent and interchangeable forms (e.g., integer, fraction, decimal, percent, exponential, and scientific notation) in problem-solving.			
A2.	Demonstrate understanding of the relationships among the basic arithmetic operations on different types of numbers.			
A3.	Apply concepts of ratios, proportions, percents, and number theory (e.g. primes, factors, and multiples) in practical and other mathematical situations.			
A4.	Represent numerical relationships in graphs, tables, and charts.			
B.	**COMPUTATION** **Students will understand and demonstrate computation skills. Students will be able to:**			
B1.	Compute and model all four operations with whole numbers, fractions, decimals, sets of numbers, and percents, applying the proper order of operations.			

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B2.	Create, solve, and justify the solution for multi-step, real-life problems including those with ratio and proportion.			
C.	**DATA ANALYSIS & STATISTICS** **Students will understand and apply concepts of data analysis.** **Students will be able to:**			
C1.	Organize and analyze data using mean, median, mode, and range.			
C2.	Assemble data and use matrices to formulate and solve problems			
C3.	Construct inferences and convincing arguments based on data.			
D.	**PROBABILITY** **Students will understand and apply concepts of probability.** **Students will be able to:**			
D1.	Find the probability of simple events and make predictions by applying the theories of probability.			
D2.	Explain the idea that probability can be represented as a fraction between and including zero and one.			
D3.	Use simulations to estimate probabilities.			
D4.	Find all possible combinations and arrangements involving a limited number of variables.			

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E.	**GEOMETRY** **Students will understand and apply concepts from geometry.** **Students will be able to:**			
E1.	Compare, classify, and draw two dimensional shapes and three dimensional figures.			
E2.	Apply geometric properties to represent and solve real-life problems involving regular and irregular shapes.			
E3.	Use a coordinate system to define and locate position.			
E4.	Use the appropriate geometric tools and measurements to draw and construct two and three dimensional figures.			
F.	**MEASUREMENT** **Students will understand and demonstrate measurement skills.** **Students will be able to:**			
F1.	Demonstrate the structure and use of systems of measurement.			
F2.	Develop and use concepts that can be measured directly, or indirectly (e.g., the concept of rate).			

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F3.	Demonstrate an understanding of length, area, volume, and the corresponding units, square units, and cubic units of measure.			
G.	**PATTERNS, RELATIONS, Students will understand that mathematics is the science of patterns, relationships, and functions. Students will be able to:**			
G1.	Describe and represent relationships with tables, graphs, and equations.			
G2.	Analyze relationships to explain how a change in one quantity can result in a change in another.			
G3.	Use patterns and multiple representations to solve problems.			
H.	**ALGEBRA CONCEPTS Students will understand and apply algebraic concepts. Students will be able to:**			
H1.	Use the concepts of variables and expressions.			
H2.	Solve linear equations using concrete, informal, and formal methods which apply the order of operations.			
H3.	Analyze tables and graphs to identify properties and relationships in a practical context.			
H4.	Use graphs to represent two-variable equations.			

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H5.	Demonstrate an understanding of inequalities and non-linear equations.			
H6.	Find solutions for unknown quantities in linear equations and in simple equations and inequalities.			
I.	**DISCRETE MATHEMATICS** **Students will understand and apply concepts in discrete mathematics. Students will be able to:**			
I1.	Create and use networks to explain practical situations or solve problems.			
I2.	Identify patterns in the world and express these patterns as rules.			
J.	**MATHEMATICAL REASONING** **Students will understand and apply concepts of mathematical reasoning. Students will be able to:**			
J1.	Support reasoning by using models, known facts, properties, and relationships.			
J2.	Demonstrate that multiple paths to a conclusion may exist.			
K.	**MATHEMATICAL** **Students will reflect upon their understanding of mathematical ideas and relationships. Students will be able to:**			
K1.	Translate relationships into algebraic notation.			
K2.	Use statistics, tables, and graphs to communicate ideas and information in convincing presentations and analyze presentations of others for bias or deceptive presentation.			